

Title (en)

Forged connecting rod of carbon steel for piston engines with breaking separated bearing sap

Title (de)

Geschmiedetes Pleuel für Hubkolbenmaschinen aus Kohlenstoffstahl mit bruchgetrenntem Lagerdeckel

Title (fr)

Bielle forgée en acier au carbone pour moteurs à pistons avec chapeaux de palier séparés par rupture

Publication

**EP 0924440 A3 20000419 (DE)**

Application

**EP 98118743 A 19981005**

Priority

DE 19751640 A 19971121

Abstract (en)

[origin: DE19751640A1] The connecting rod (1) is made of a specified type of steel. The carbon steel (with 0.60-0.78 % carbon and 0.06-0.07 % sulfur) additionally contains 0.55-1.00 % manganese, 0.03-0.20 % vanadium, 0.10-0.30 % chromium and 0.01-0.025 nitrogen as essential alloying ingredients. The maximum total of the contaminants (Si, Cu, B and P) is limited to 0.6 %. As a result of a specified cooling rate from the forging temperature to less than 600 C in or by air, the structure of the connecting rod material contains 90-95 % pearlite and 10-5 % ferrite.

IPC 1-7

**F16C 9/04**; **F16C 7/02**

IPC 8 full level

**B21K 1/76** (2006.01); **B23D 31/00** (2006.01); **B23K 26/386** (2014.01); **C21D 1/00** (2006.01); **C21D 1/09** (2006.01); **C22C 38/00** (2006.01); **C22C 38/24** (2006.01); **F16C 7/02** (2006.01); **F16C 9/04** (2006.01)

CPC (source: EP)

**B21K 1/766** (2013.01); **B23D 31/003** (2013.01); **B23K 26/389** (2015.10); **C21D 1/00** (2013.01); **C21D 1/09** (2013.01); **C22C 38/001** (2013.01); **C22C 38/24** (2013.01); **F16C 9/045** (2013.01); **C21D 2211/005** (2013.01); **C21D 2211/009** (2013.01); **F16C 2204/64** (2013.01)

Citation (search report)

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DOCDB simple family (application)

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